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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/893,963

06/29/2001

Young Tae Yang

8733.441.00

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7590

08/09/2006

MCKENNA LONG & ALDRIDGE LLP  
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WASHINGTON, DC 20006

EXAMINER

NORRIS, JEREMY C

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Advisory Action</b> <b>Before the Filing of an Appeal Brief</b>	<b>Application No.</b> 09/893,963	<b>Applicant(s)</b> YANG ET AL.	
	<b>Examiner</b> Jeremy C. Norris	<b>Art Unit</b> 2841	

**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 19 July 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2. ☐ The Notice of Appeal was filed on \_\_\_\_\_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
- (a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
- (b) ☐ They raise the issue of new matter (see NOTE below);
- (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.
6. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_.

Claim(s) objected to: \_\_\_\_\_.

Claim(s) rejected: 1-35.

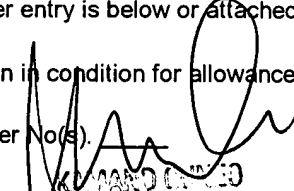
Claim(s) withdrawn from consideration: \_\_\_\_\_.

**AFFIDAVIT OR OTHER EVIDENCE**

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s): \_\_\_\_\_.
13. ☐ Other: \_\_\_\_\_.

  
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Continuation of 11. does NOT place the application in condition for allowance because: Regarding US 5,404,239 (Hirai), Applicants allege Hirai does not disclose a bending force absorbing recess. However, the claims do not require that the force absorbed be a bending force. The recess 3b of Hirai absorbs a fixing force applied by the fixing member (solder 6). Regarding US 5,444,275 (Mizutani) , Mizutani does indeed disclose two pads (lands) on first and second portions electrically interconnected with one another as expressed in col. 3, lines 25-35).

## **DETAILED ACTION**

### **Proposed Rejection of Amended Claims to be Entered Upon Appeal**

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 22-25, 34 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,404,239 (Hirai).

Hirai discloses, referring primarily to figures 1 & 2, a flexible circuit film (3) for connecting external circuits, comprising: a body; a first pad (in area 3a; col. 3, lines 5-10) provided at one end of the body to be adhesively connected to a pad of a first printed circuit board (1, col. 3, lines 5-10), a second pad (in areas 3c, d, e; col. 3, lines 20-30) provided at other end of the body to be engaged to a connector of a second printed circuit board (2, col. 3, lines 10-20) and electrically connected to the first pad; and least one force absorbing edge recess (3b) defined in the body [claim 1] wherein the recess is defined in the body in a region adjacent to second pad [claim 2], wherein the recess is defined in at least two side surfaces of the body in the region adjacent to the second pad [claim 3], wherein the body has at least one bent portion (not shown, col. 3, lines 20-25) [claim 4], the body having at least two side surfaces wherein the at least one recess is defined at each of the at least two side surfaces in a region adjacent to the bent portion [claim 5], wherein a first recess (3c) is defined at the bent portion and said at least one recess is defined in the body in a region adjacent to the second pad

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[claim 6], wherein said at least one recess is defined at the bent portion [claim 7], wherein said at least one recess has a substantially concave shape [claim 8] wherein the at least one recess has a substantially curved shape [claim 9], wherein the body having at least two side surfaces wherein the at least one recess is defined at a region adjacent to the bent portion [claim 22], wherein the concave shape is greater than a semicircle [claim 23], wherein the concave shape has a shape of an incomplete circle [claim 24], wherein the one recess includes a cutout portion [claim 25].

Additionally, Hirani discloses, discloses, a printed circuit film for connecting external circuits comprising: a body (3) having a first portion (near opening 3a) and a second portion (near opening 3e); a first pad connected to the first portion (col. 3, lines 1-10); a second pad connected to the second portion and electrically connected to the first pad (col. 3, lines 10-30); and at least one recess portion (3b) in the body [claim 34], wherein the recess portion includes a cutout portion [claim 35].

Claims 10-21 and 26-35 rejected under 35 U.S.C. 102(b) as being anticipated by US 5,777,275 (Mizutani).

Similarly, Hirai discloses, referring primarily to figures 1-3, a flexible printed circuit film (1) for connecting external circuits (col. 3, lines 5-20), comprising, a body having a first portion and a second portion the first portion intersecting the second portion to form a corner portion (best seen in figure 2), the corner portion having an inner vertex and an outer vertex; a first pad connected at an end of the first portion; a second pad connected at an end of the second portion and electrically connected to the first pad

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(col. 3, lines 25-35); and a first force absorbing recess (3a, c) in the body [claim 10], wherein the first recess has a substantially concave shape [claim 11], wherein the first recess has a substantially curved shape [claim 12], wherein the first portion is substantially perpendicular to the second portion [claim 13], wherein the first recess is at the inner vertex of the corner portion [claim 14], further comprising a second recess (3c) in a region of the second portion of the body, the region being between the outer vertex of the corner portion and the second pad [claim 15], wherein the second recess has a substantially concave shape [claim 16], wherein the second recess has a substantially curved shape [claim 17], wherein the first recess (3c) is at a region between the inner vertex and the second pad [claim 18], further comprising a second recess (3a) in a region between the outer vertex of the corner portion and the second pad [claim 19], wherein the second recess has a substantially concave shape [claim 20], wherein the second recess has a substantially curved shape [claim 21], wherein the first recess includes a cutout portion [claim 26], wherein the concave shape is greater than a semicircle [claims 27, 29, 31], wherein the concave shape has a shape of an incomplete circle [claims 28, 30, 32], wherein the second recess has a substantially curved shape [claim 33].

Additionally, Mizutani discloses, a printed circuit film for connecting external circuits comprising: a body (1) having a first portion (1a) and a second portion (1b); a first pad connected to the first portion; a second pad connected to the second portion and electrically connected to the first pad (col. 3, lines 15-35); and at least one force

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absorbing recess portion (3a) in the body [claim 34], wherein the recess portion includes a cutout portion [claim 35].